Appl. No. 10/729,273 Amdt. Dated January 27, 2006 Reply to Office Action of November 3, 2005

AMENDMENT TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (previously presented) An energy absorbing plunging constant velocity joint comprising:

an outer joint part defining an axis, and having a plurality of outer ball tracks, and an outer extended axial range;

an inner joint part defining an axis, and having a plurality of inner ball tracks, and an inner extended axial range;

a plurality of torque transmitting balls each guided in a normal axial range of a corresponding pair of said outer and inner ball tracks, wherein each corresponding pair of said inner ball tracks and said outer ball tracks are angled in respect of their respective part axis, said angles being identical in size but set in opposite directions, and alternates with each corresponding pair of said inner ball tracks and said outer ball tracks being axially straight in respect of their respective part axis:

a ball cage having a plurality of cage windows each accommodating one of said balls and which hold said balls in a plane when said torque transmitting balls are in communication with said inner ball tracks and said outer ball tracks; and

one or more deformable energy absorption surfaces distal to the normal axial range and located within the outer extended axial range upon said outer joint part or the inner extended axial range upon said inner joint part, wherein the energy absorption surface interferes with at least one of the plurality of torque transmitting balls when said joint is operated beyond said normal axial range.

2. (original) The joint according to claim 1, wherein one of the energy absorption surfaces is a circlip.

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Appl. No. 10/729,273 Amdt. Dated January 27, 2006 Reply to Office Action of November 3, 2005

- 3. (original) The joint according to claim 2, wherein the circlip is made from a deformable material.
- 4. (original) The joint according to claim 3, wherein the deformable material is metal.
- 5. (original) The joint according to claim 3, wherein the deformable material is plastic.
- 6. (original) The joint according to claim 2, wherein the circlip is a ring.
- 7. (original) The joint according to claim 2, wherein the outer joint part further comprises a cylindrical open end located adjacent the outer extended axial range and distal to the normal axial range of the outer joint part and a grease cover sealingly attached to the cylindrical open end.
- 8. (original) The joint according to claim 7, wherein the grease cover is displaceable when the joint has axial travel beyond the outer extended axial range.
- 9. (currently amended) An energy absorbing plunging constant velocity joint comprising:

an outer joint part defining an axis and having a plurality of outer ball tracks, and an outer extended axial range;

an inner joint part defining an axis and having a plurality of inner ball tacks tracks, and an inner extended axial range;

a plurality of torque transmitting balls each guided in a normal axial range of a corresponding pair of said outer and inner ball tracks, wherein each corresponding pair of said inner ball tracks and said outer ball tracks are angled in respect of their respective part axis, said angles being identical in size but set in

Appl. No. 10/729,273

Amdt. Dated January 27, 2006

Reply to Office Action of November 3, 2005

opposite directions, and alternates with each corresponding pair of said inner ball tracks and said outer ball tracks being axially straight in respect of their respective part axis;

a ball cage having a plurality of cage windows each accommodating one of said balls and which hold said balls in a plane when said torque transmitting balls are in communication with said inner ball tracks and said outer ball tracks; and

one or more deformable energy absorption surfaces distal to the normal axial range and located within the outer extended axial range upon said outer joint part or the inner extended axial range upon said inner joint part, wherein the energy absorption surface interferes with said ball cage or with at least one of the plurality of torque transmitting balls when said joint is operated beyond said normal axial range.

- 10. (withdrawn) The joint according to claim 9, wherein one of the energy absorption surfaces is a bore surface.
- 11. (withdrawn) The joint according to claim 10, wherein the bore surface has at least one inclination, stepped inclination or variable inclination.
- 12. (withdrawn) The joint according to claim 10, wherein the bore surface is made from the same material piece as the outer joint part or the inner joint part.
- 13. (withdrawn) The joint according to claim 9, wherein one of the energy absorption surfaces is a track surface.
- 14. (withdrawn) The joint according to claim 13, wherein the track surface has one or more tapers or a stepped taper.

Appl. No. 10/729,273 Amdt. Dated January 27, 2006 Reply to Office Action of November 3, 2005

- 15. (withdrawn) The joint according to claim 14, wherein the track surface is made from the same material piece as the outer joint part or the inner joint part.
- 16. (withdrawn) The joint according to claim 9, wherein the outer joint part further comprises a cylindrical open end located adjacent the outer extended axial range and distal to the normal axial range of the outer joint part and a grease cover sealingly attached to the cylindrical open end.
- 17. (withdrawn) The joint according to claim 16, wherein the grease cover is displaceable when the joint axially travels beyond the outer extended axial range.
- 18. (original) The joint according to claim 9 further comprising one or more circlip energy absorption surfaces.
 - 19. (cancelled)
 - 20. (cancelled)